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FIG.1

```
<script language="JavaScript">
<!-- Hide the script from old browsers --

var timerID = null;
var timerRunning = false;
var id, pause=0,position=0;

function stopclock () {
        if(timerRunning)
                clearTimeout (timerID);
        timerRunning = false;
}

function showtime () {
        var now = new Date();
        var hours = now.getHours();
        var minutes = now.getMinutes();
        var seconds = now.getSeconds()
        var timeValue = "" + ((hours >12) ? hours -12 :hours)
        timeValue += ((minutes < 10) ? ":0" : ":") + minutes
        timeValue += ((seconds < 10) ? ":0" : ":") + seconds
        timeValue += (hours >=12) ? "P.M." : "A.M."
        document.clock.face.value = timeValue;
        timerID = setTimout ("showtime()",1000);
        timerRunning = true;
}

function startclock () {
        stopclock();
        showtime();
}
// --End Hiding Here -->
</script>
<body onLoad="startclock()">
<form name="clock" onSubmit="0">
<input type ="text" name="face" size=13 value="">
</form>
```

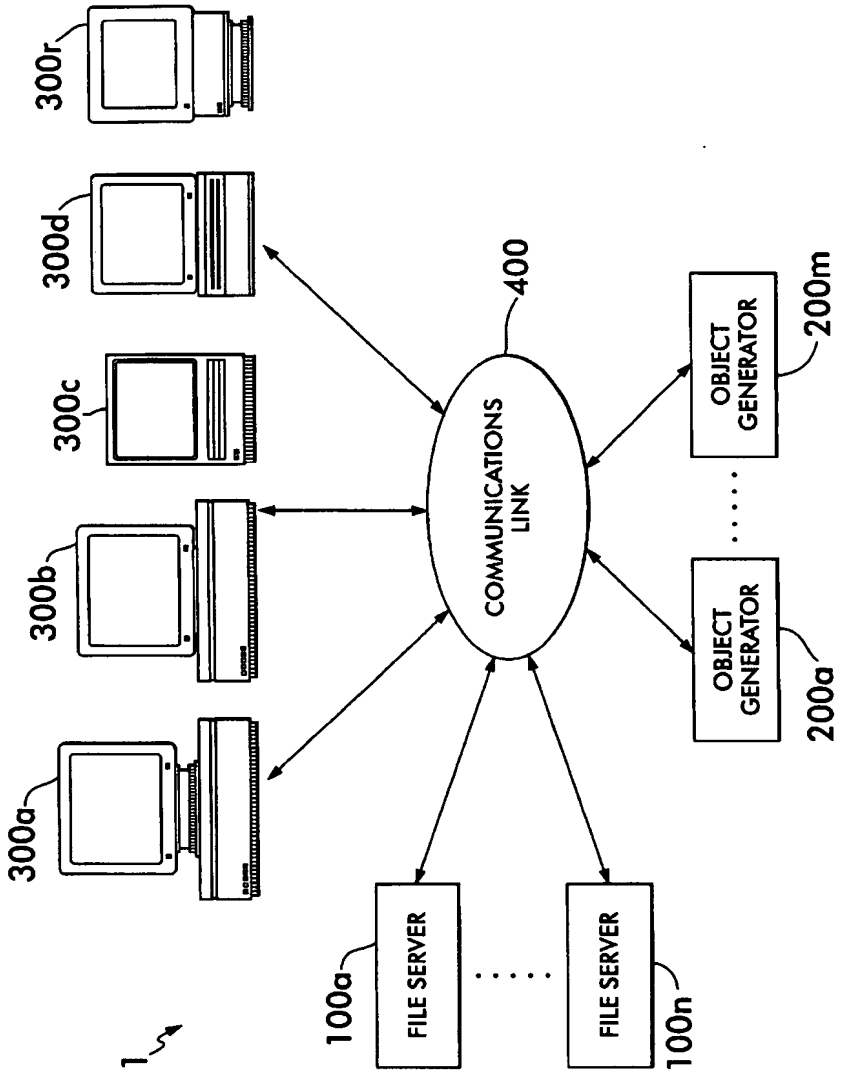

300r
300d
300c
300b
300a
400
COMMUNICATIONS LINK
OBJECT GENERATOR
200m
OBJECT GENERATOR
200a
FILE SERVER
100a
FILE SERVER
100n
1

FIG.2

FIG.3

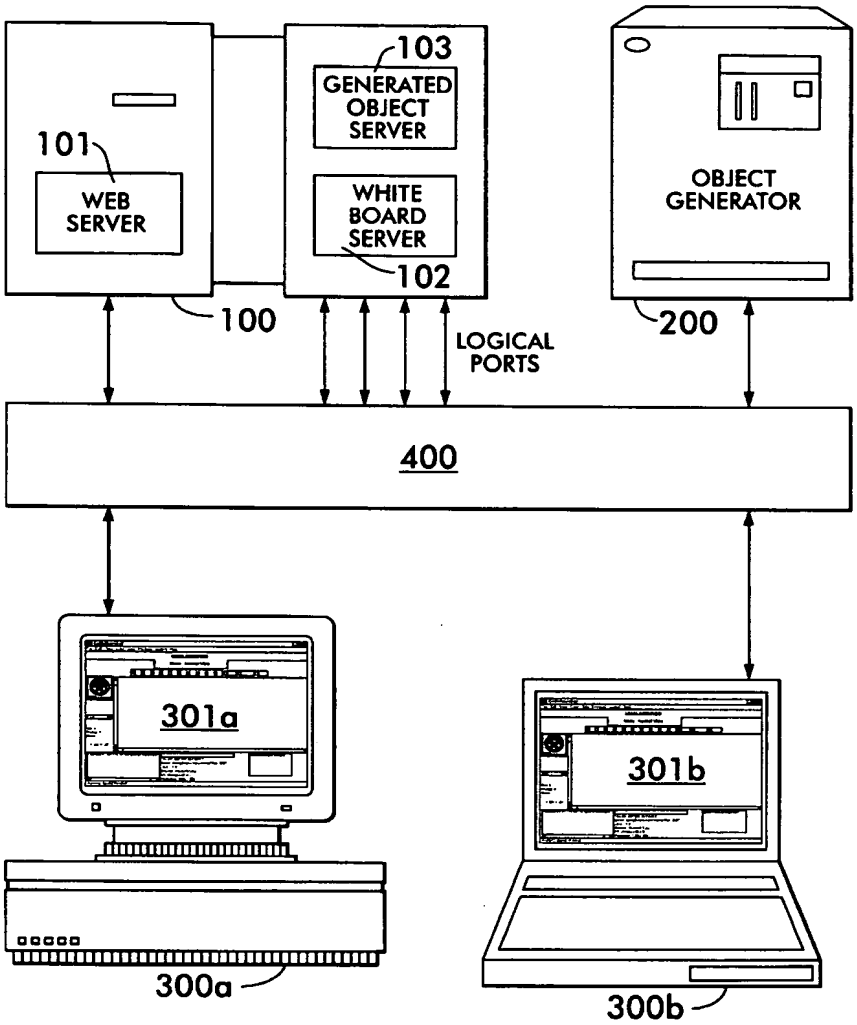

103
GENERATED OBJECT SERVER
WHITE BOARD SERVER
102
101
WEB SERVER
100
OBJECT GENERATOR
200
LOGICAL PORTS
400
301a
301b
300a
300b

FIG. 4

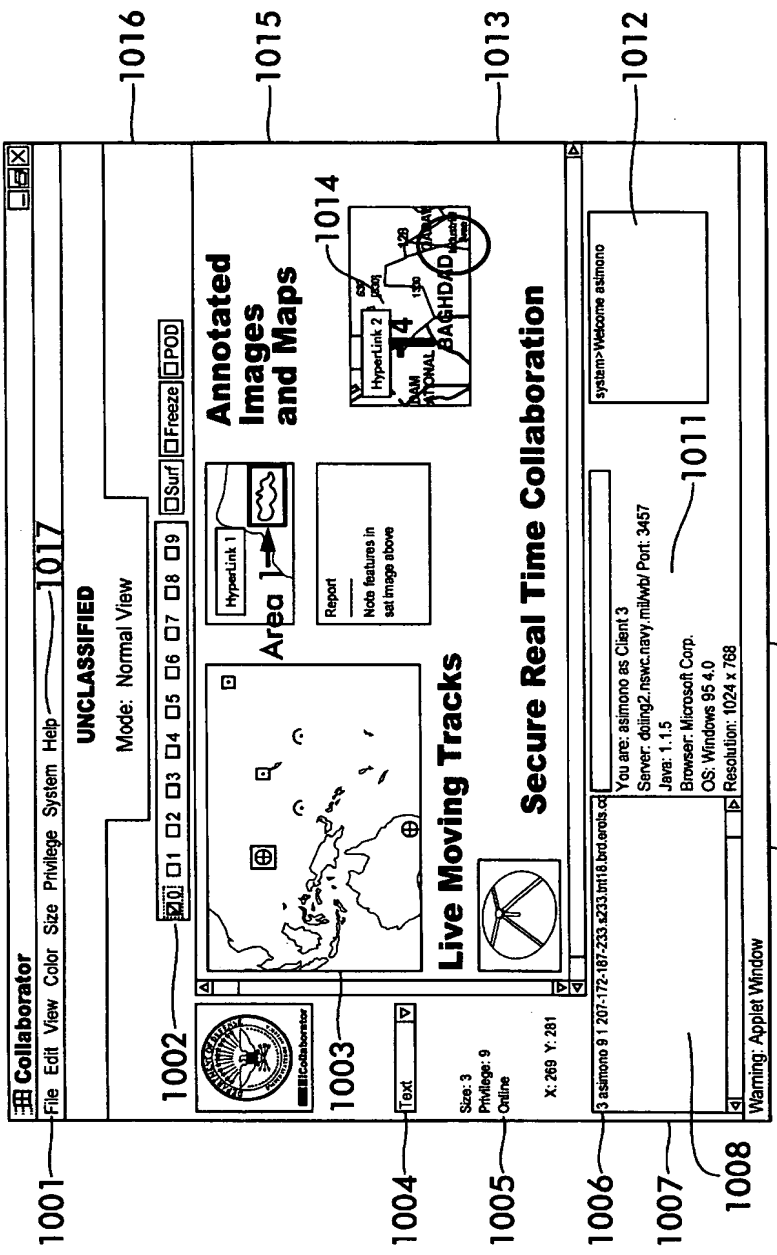

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
Surf Freeze POD
Annotated Images and Maps
HyperLink 1
HyperLink 2
Area 1
Report
Note features in sat image above
Live Moving Tracks
Secure Real Time Collaboration
Text
Size: 3
Privilege: 9
Online
X: 269 Y: 281
You are: asimono as Client 3
Server: doiing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1.5
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017

FIG.5A

```
<HTML>
<HEAD>
<title>Collaborator</title>
</HEAD>
<body bgcolor=#ffffff text=#000000 vlink=#ff5555 link=#0000ff>
<CENTER>
<font color=#00AA00><center><h5><UNCLASSIFIED</h5></center></font>
</CENTER>
<CENTER>
<IMG ALIGN=CENTER SRC="dodlogo.gif" alt="Logo" height=150 width=150>
<br>
<h1>Collaborator</h1>
<br>
<applet code="wb.class" archive="wb.jar" width="20" height="20"
<param name=UploadURL value="http://doiing2.nswc.navy.mil/cgi-bin/fup2_cgi.pl">
<param name=FileDirectory value="uploadadmin/filelist.txt">
<param name=FileDirectoryPath value="uploadedfiles/">
<param name=DownloadURL value="uploadadmin/filelog.html">
<param name=UserGuideURL value="userguide.html">
<param name=RevHistoryURL value="revisionhistory.html">
<param name=WhiteboardSecurity value="UNCLASSIFIED"
<param name=PortNumber value="3457"
<param name=PanelLogo value="dodseal.gif">
<param name=Logo1 value="dodlogo.gif">
<param name=WhiteboardDrawObjects value="
```

FIG.5B

```
*SELECT*,
Freehand,
Oval,
Filled_Oval
Rectangle,
Filled_Rectangle,
Text,
Image,
HyperLink,
java.awt.TextArea,
java.awt.TextField,
GUIPanel,
Map_Tracks
">
<param name=WhiteboardScrollBars value="YES">
<param name=WhiteboardPanelControls value="YES">
A Java enabled browser is required to view this page.
</applet>
</CENTER>
<p>
<b>
You may login as a guest.<br>
<br>
User: guest<br>
Password: guest<br>
</b>
<br>
<font size="2">
<i>Point of Contact</i><br>
Average Programmer<br>
<br><i>Last Updated Dec 03 1998</i>
</font>
</body>
</HTML>
```

FIG. 6

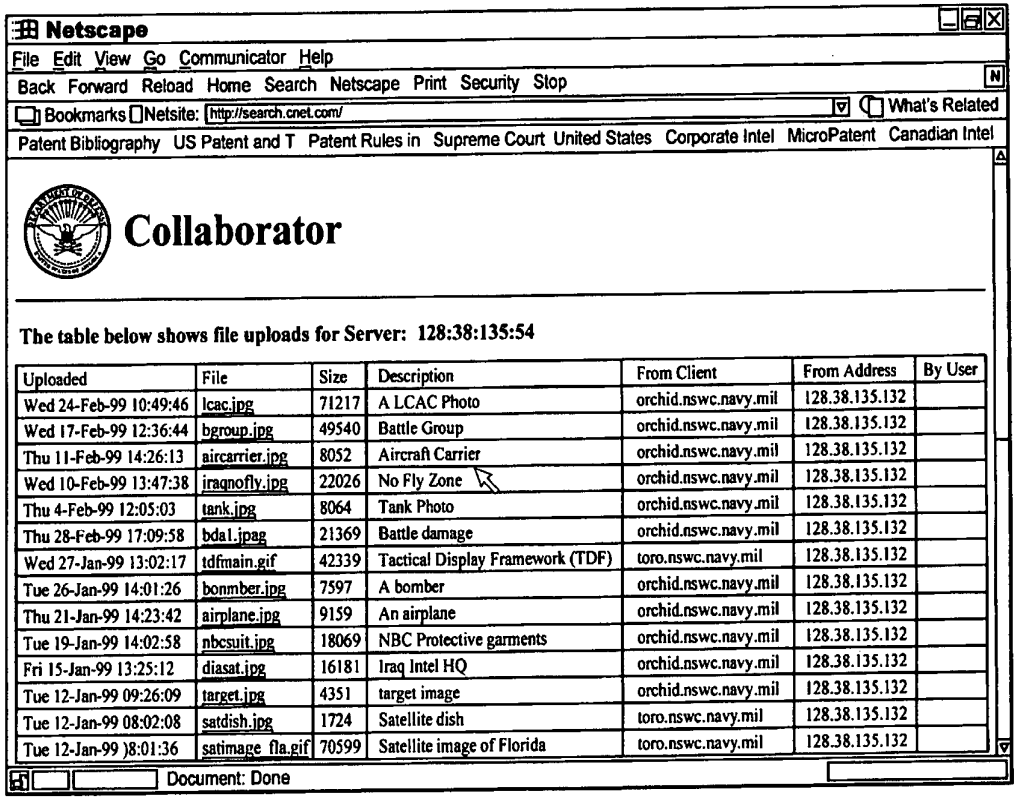

Netscape
File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Netsite: http://search.cnet.com/
What's Related
Patent Bibliography US Patent and T Patent Rules in Supreme Court United States Corporate Intel MicroPatent Canadian Intel
Collaborator
The table below shows file uploads for Server: 128:38:135:54
Uploaded | File | Size | Description | From Client | From Address | By User
Wed 24-Feb-99 10:49:46 | lcac.jpg | 71217 | A LCAC Photo | orchid.nswc.navy.mil | 128.38.135.132 |
Wed 17-Feb-99 12:36:44 | bgroup.jpg | 49540 | Battle Group | orchid.nswc.navy.mil | 128.38.135.132 |
Thu 11-Feb-99 14:26:13 | aircarrier.jpg | 8052 | Aircraft Carrier | orchid.nswc.navy.mil | 128.38.135.132 |
Wed 10-Feb-99 13:47:38 | iraqnofly.jpg | 22026 | No Fly Zone | orchid.nswc.navy.mil | 128.38.135.132 |
Thu 4-Feb-99 12:05:03 | tank.jpg | 8064 | Tank Photo | orchid.nswc.navy.mil | 128.38.135.132 |
Thu 28-Feb-99 17:09:58 | bda1.jpag | 21369 | Battle damage | orchid.nswc.navy.mil | 128.38.135.132 |
Wed 27-Jan-99 13:02:17 | tdfmain.gif | 42339 | Tactical Display Framework (TDF) | toro.nswc.navy.mil | 128.38.135.132 |
Tue 26-Jan-99 14:01:26 | bonmber.jpg | 7597 | A bomber | orchid.nswc.navy.mil | 128.38.135.132 |
Thu 21-Jan-99 14:23:42 | airplane.jpg | 9159 | An airplane | orchid.nswc.navy.mil | 128.38.135.132 |
Tue 19-Jan-99 14:02:58 | nbcsuit.jpg | 18069 | NBC Protective garments | orchid.nswc.navy.mil | 128.38.135.132 |
Fri 15-Jan-99 13:25:12 | diasat.jpg | 16181 | Iraq Intel HQ | orchid.nswc.navy.mil | 128.38.135.132 |
Tue 12-Jan-99 09:26:09 | target.jpg | 4351 | target image | orchid.nswc.navy.mil | 128.38.135.132 |
Tue 12-Jan-99 08:02:08 | satdish.jpg | 1724 | Satellite dish | toro.nswc.navy.mil | 128.38.135.132 |
Tue 12-Jan-99)8:01:36 | satimage fla.gif | 70599 | Satellite image of Florida | toro.nswc.navy.mil | 128.38.135.132 |
Document: Done

FIG. 7

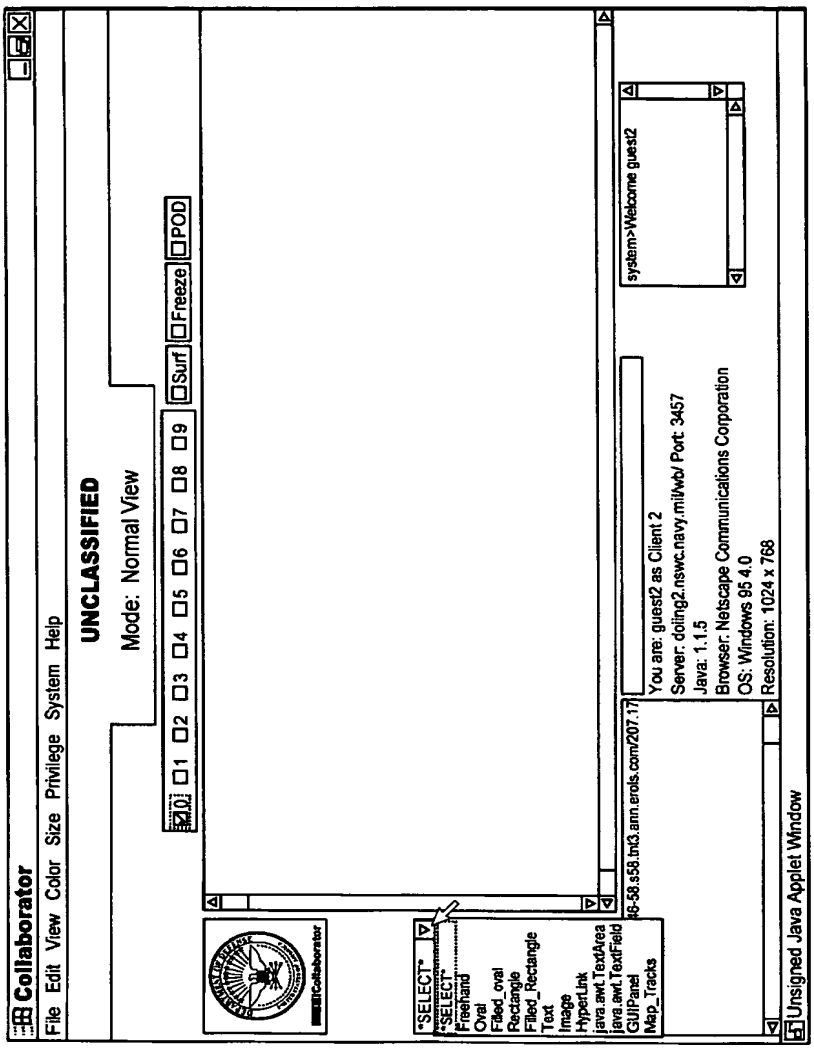

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
Collaborator
SELECT
Freehand
Oval
Filled_oval
Rectangle
Filled_Rectangle
Text
Image
HyperLink
java.awt.TextArea
java.awt.TextField
GUIPanel
Map_Tracks
#6-58.s58.tn3.ann.erols.com/207.17
You are: guest2 as Client 2
Server: doling2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome guest2
Unsigned Java Applet Window

FIG.8

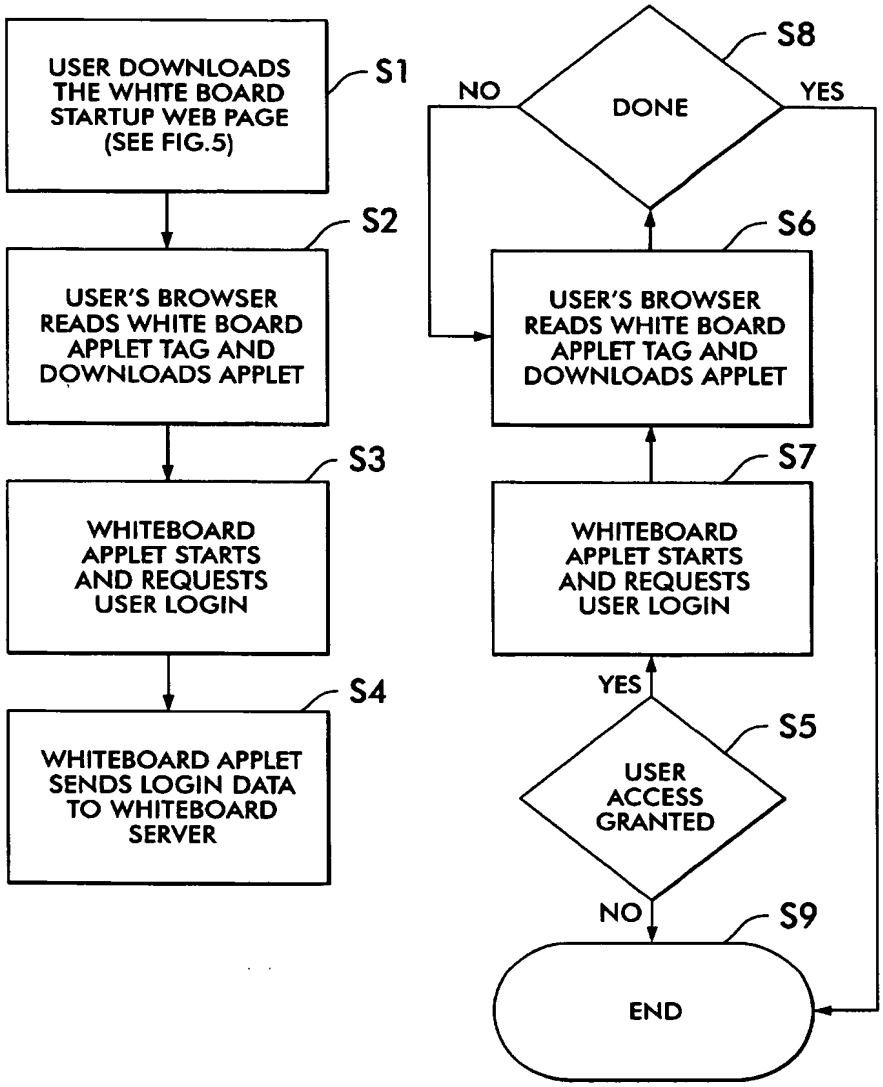

USER DOWNLOADS THE WHITE BOARD STARTUP WEB PAGE (SEE FIG.5)
S1
USER'S BROWSER READS WHITE BOARD APPLET TAG AND DOWNLOADS APPLET
S2
WHITEBOARD APPLET STARTS AND REQUESTS USER LOGIN
S3
WHITEBOARD APPLET SENDS LOGIN DATA TO WHITEBOARD SERVER
S4
USER ACCESS GRANTED
S5
YES
NO
USER'S BROWSER READS WHITE BOARD APPLET TAG AND DOWNLOADS APPLET
S6
WHITEBOARD APPLET STARTS AND REQUESTS USER LOGIN
S7
DONE
S8
NO
YES
END
S9

FIG.9A

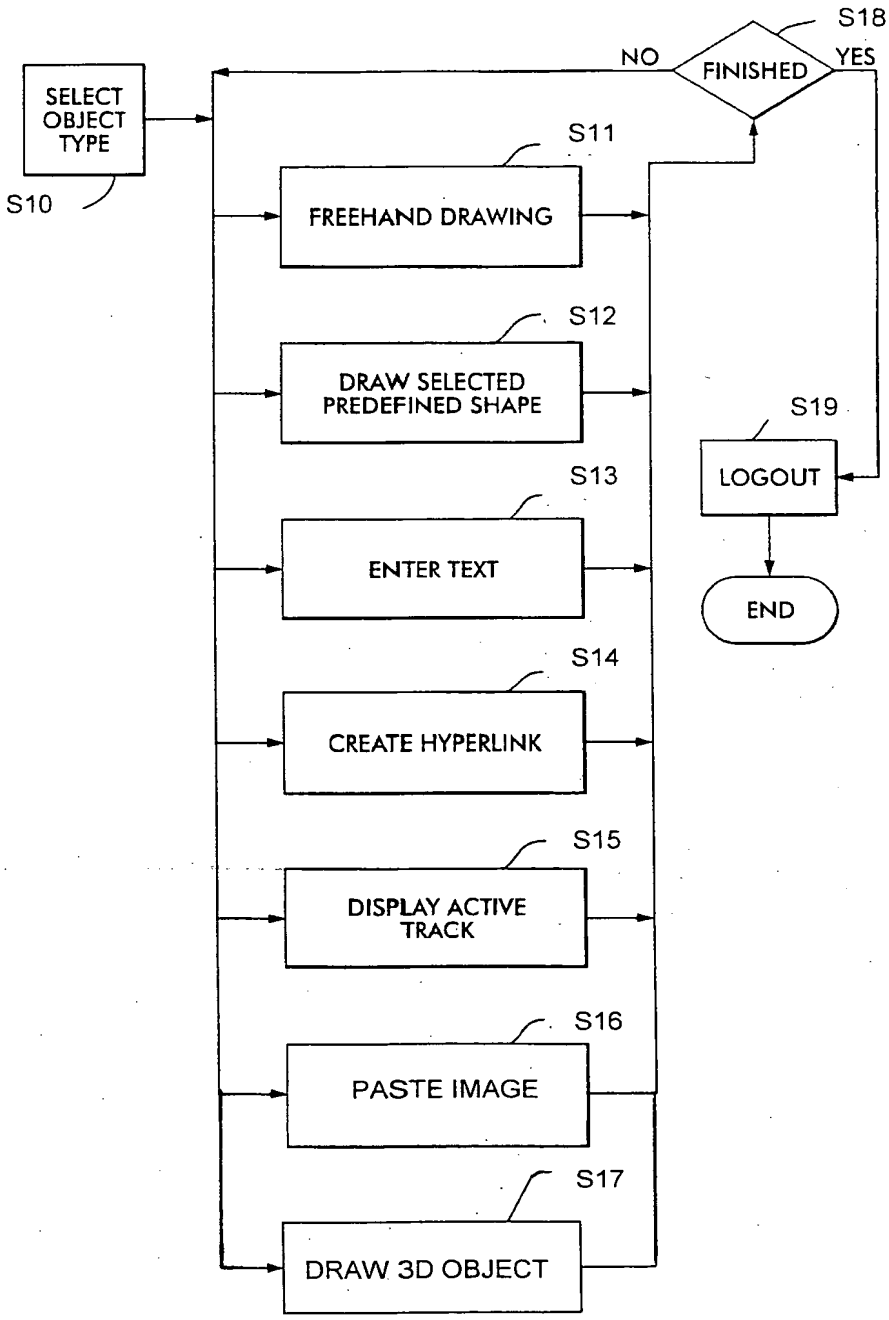

SELECT OBJECT TYPE
S10
S11
FREEHAND DRAWING
S12
DRAW SELECTED PREDEFINED SHAPE
S13
ENTER TEXT
S14
CREATE HYPERLINK
S15
DISPLAY ACTIVE TRACK
S16
PASTE IMAGE
S17
DRAW 3D OBJECT
S18
FINISHED
NO
YES
S19
LOGOUT
END

FIG.9B

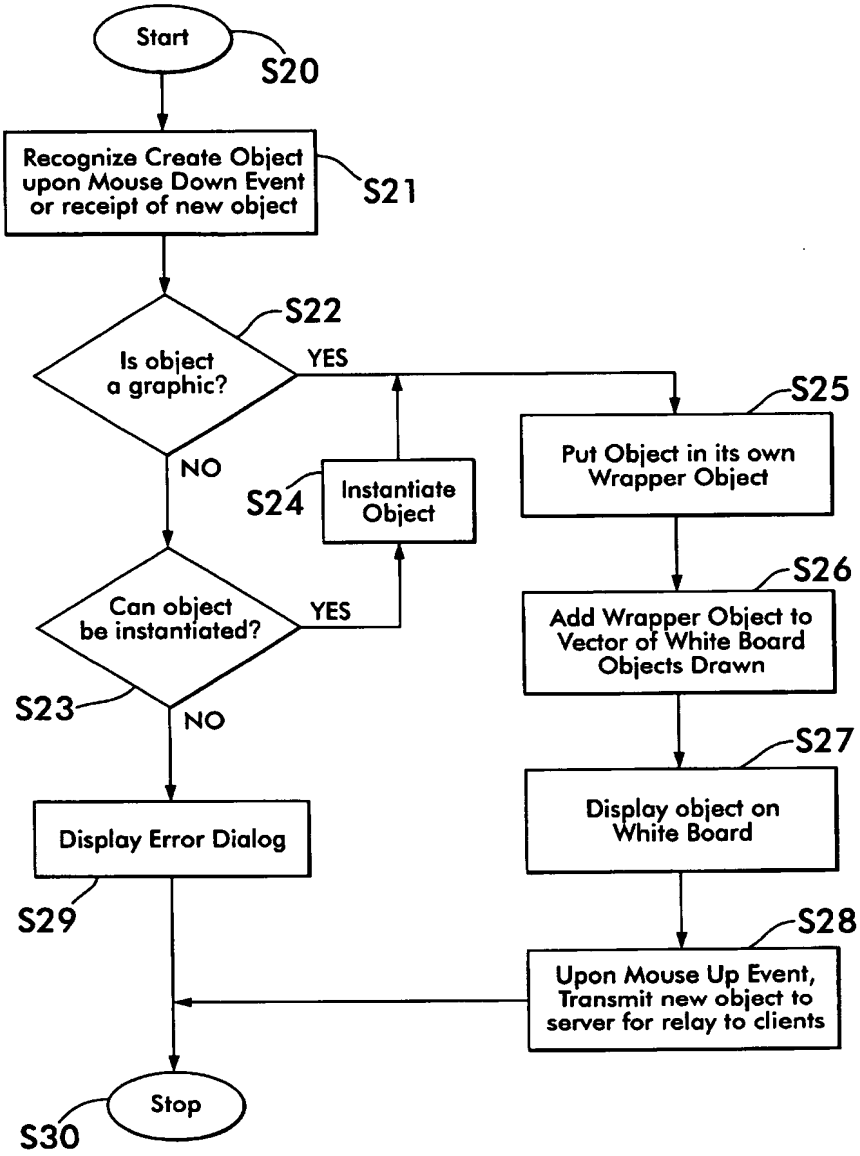

Start
S20
Recognize Create Object upon Mouse Down Event or receipt of new object
S21
S22
Is object a graphic?
YES
NO
S24
Instantiate Object
Can object be instantiated?
YES
S23
NO
Display Error Dialog
S29
S25
Put Object in its own Wrapper Object
S26
Add Wrapper Object to Vector of White Board Objects Drawn
S27
Display object on White Board
S28
Upon Mouse Up Event, Transmit new object to server for relay to clients
Stop
S30

FIG.10A

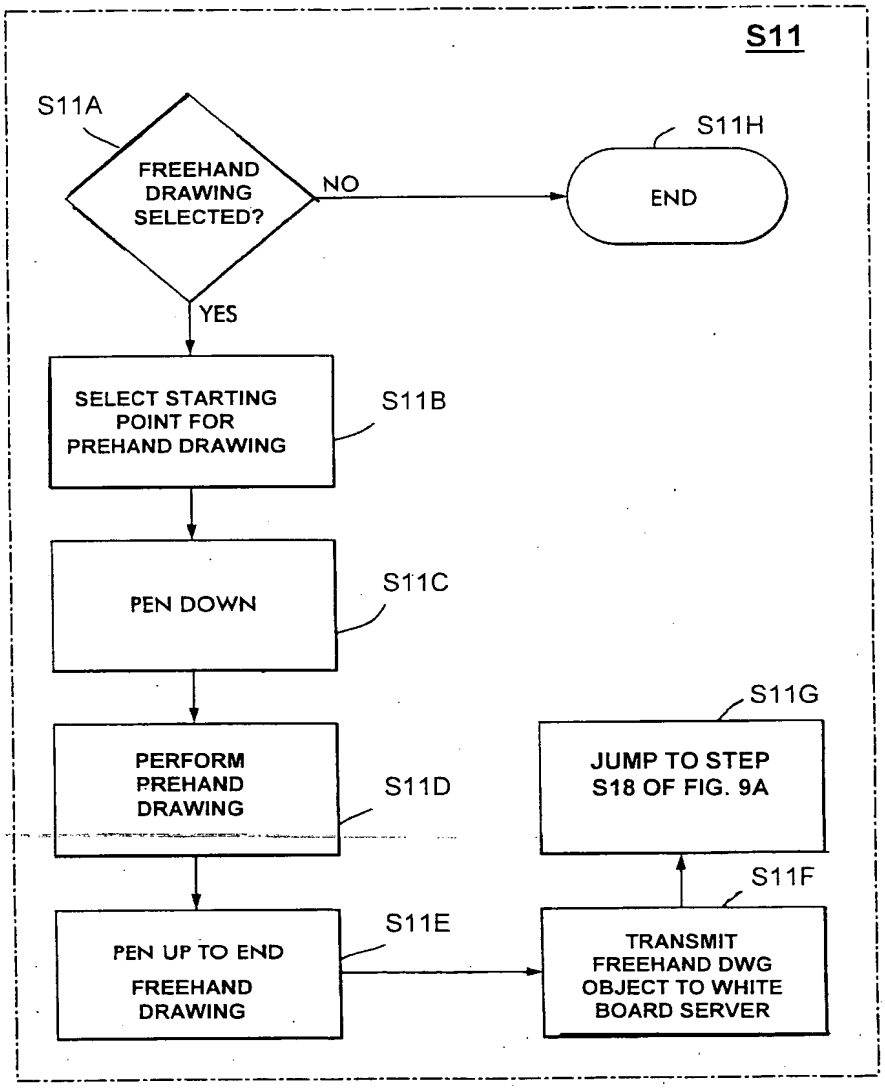

S11
S11A
FREEHAND DRAWING SELECTED?
NO
S11H
END
YES
SELECT STARTING POINT FOR PREHAND DRAWING
S11B
PEN DOWN
S11C
PERFORM PREHAND DRAWING
S11D
S11G
JUMP TO STEP S18 OF FIG. 9A
S11F
PEN UP TO END FREEHAND DRAWING
S11E
TRANSMIT FREEHAND DWG OBJECT TO WHITE BOARD SERVER

FIG.10B

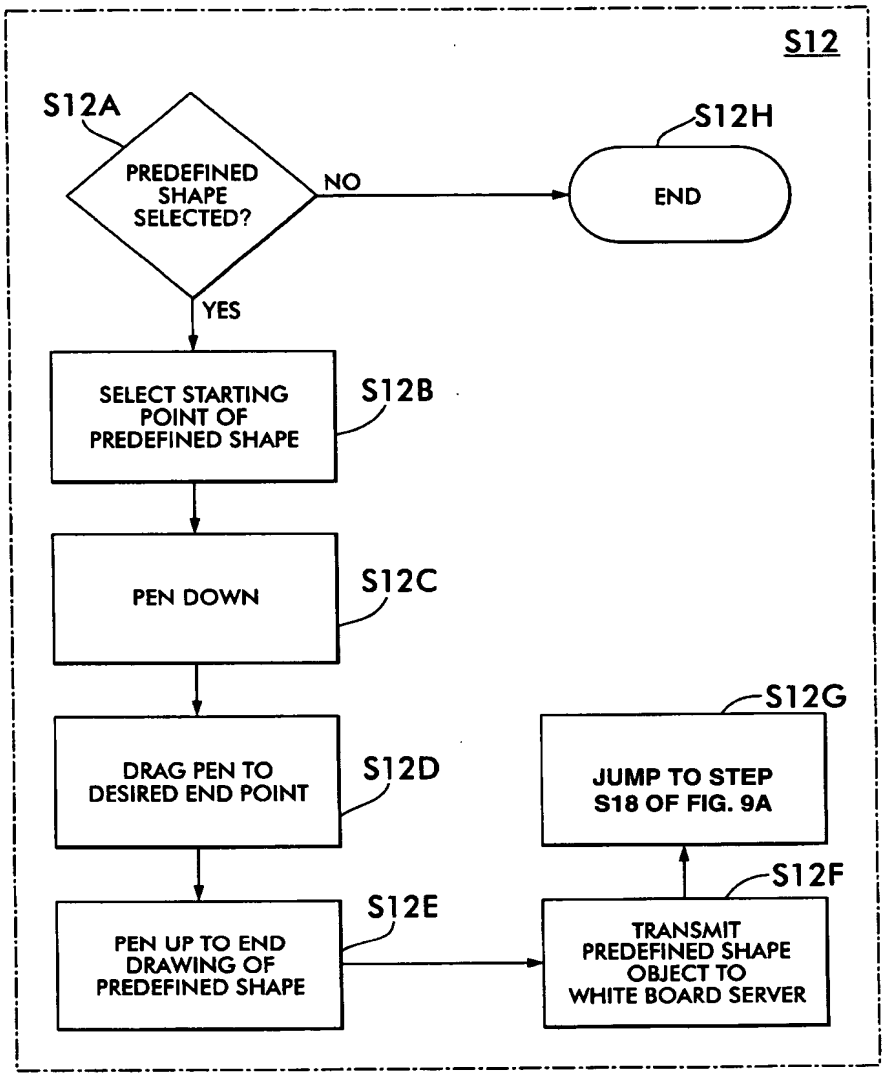

S12
S12A
PREDEFINED SHAPE SELECTED?
NO
S12H
END
YES
SELECT STARTING POINT OF PREDEFINED SHAPE
S12B
PEN DOWN
S12C
DRAG PEN TO DESIRED END POINT
S12D
S12G
JUMP TO STEP S18 OF FIG. 9A
S12F
PEN UP TO END DRAWING OF PREDEFINED SHAPE
S12E
TRANSMIT PREDEFINED SHAPE OBJECT TO WHITE BOARD SERVER

FIG.10C

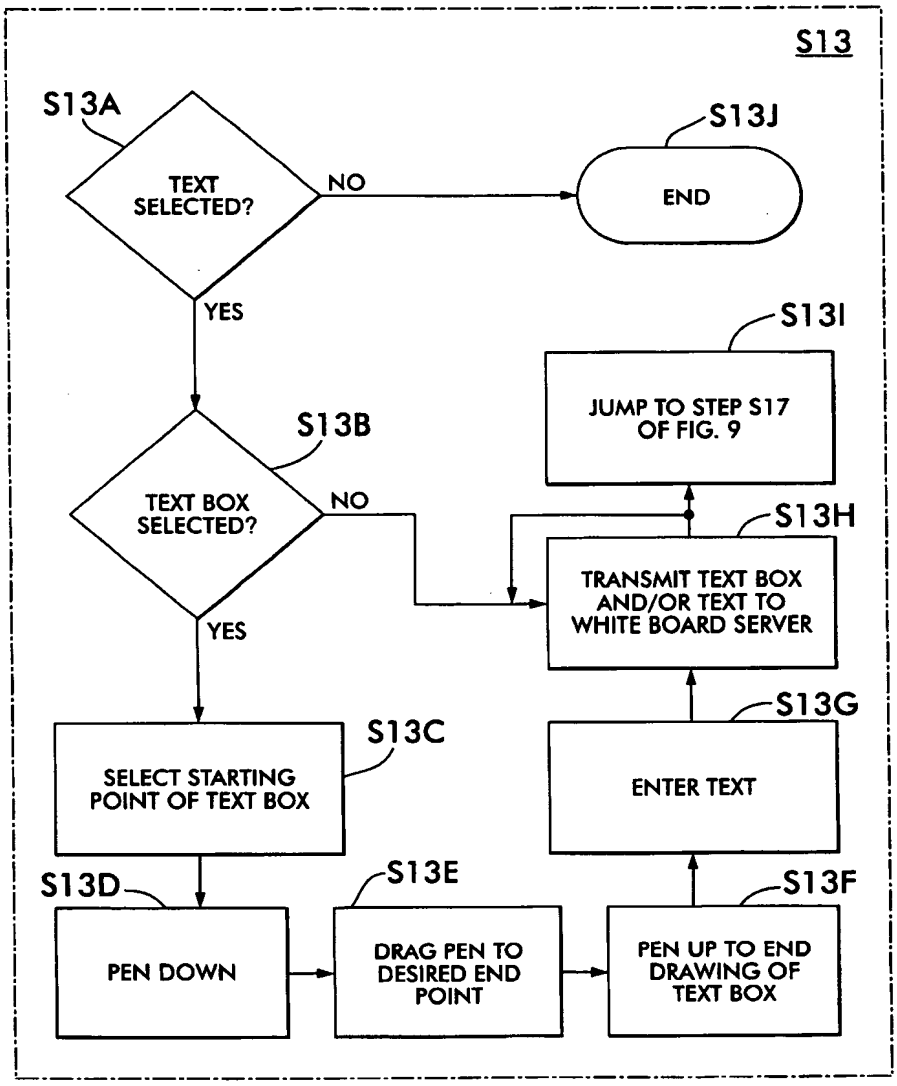

S13
S13A
TEXT SELECTED?
NO
S13J
END
YES
S13I
JUMP TO STEP S17 OF FIG. 9
S13B
TEXT BOX SELECTED?
NO
S13H
TRANSMIT TEXT BOX AND/OR TEXT TO WHITE BOARD SERVER
YES
S13G
S13C
SELECT STARTING POINT OF TEXT BOX
ENTER TEXT
S13D
S13E
S13F
PEN DOWN
DRAG PEN TO DESIRED END POINT
PEN UP TO END DRAWING OF TEXT BOX

FIG.10D

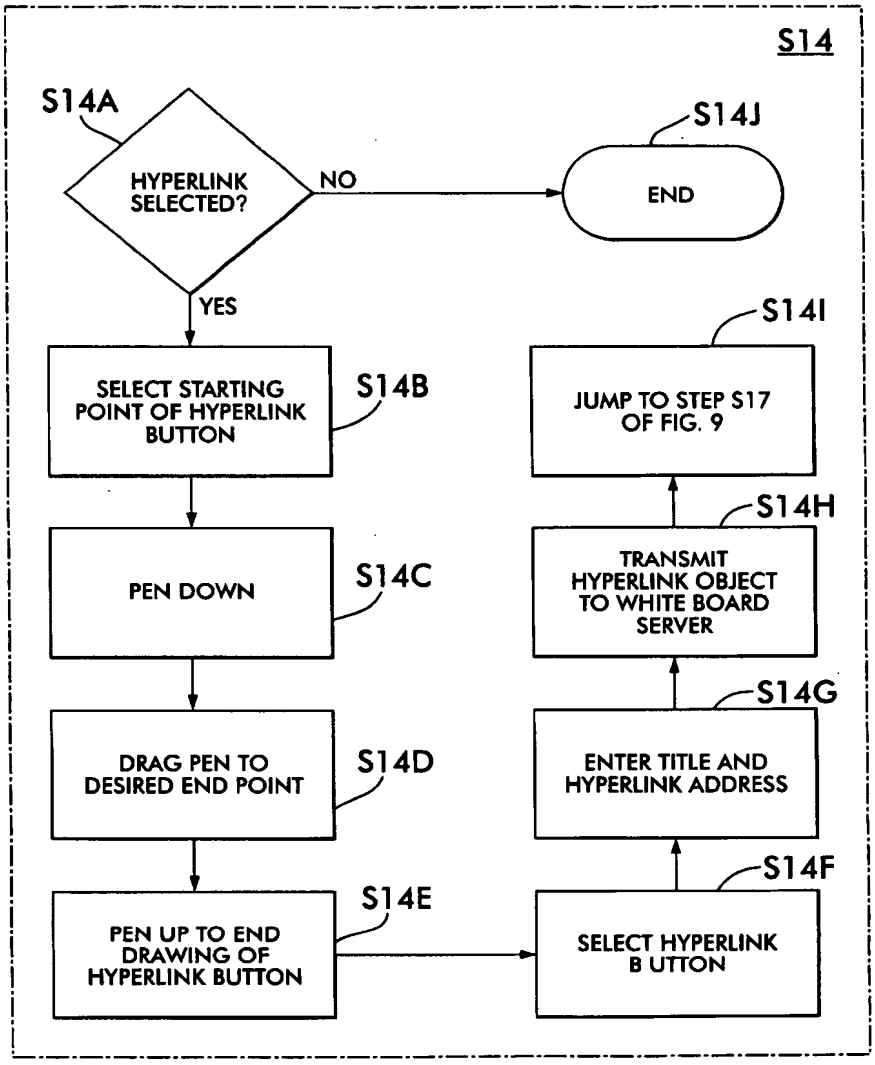

S14
S14A
HYPERLINK SELECTED?
NO
S14J
END
YES
S14I
SELECT STARTING POINT OF HYPERLINK BUTTON
S14B
JUMP TO STEP S17 OF FIG. 9
S14H
PEN DOWN
S14C
TRANSMIT HYPERLINK OBJECT TO WHITE BOARD SERVER
S14G
DRAG PEN TO DESIRED END POINT
S14D
ENTER TITLE AND HYPERLINK ADDRESS
S14F
S14E
PEN UP TO END DRAWING OF HYPERLINK BUTTON
SELECT HYPERLINK B UTTON

FIG.10E

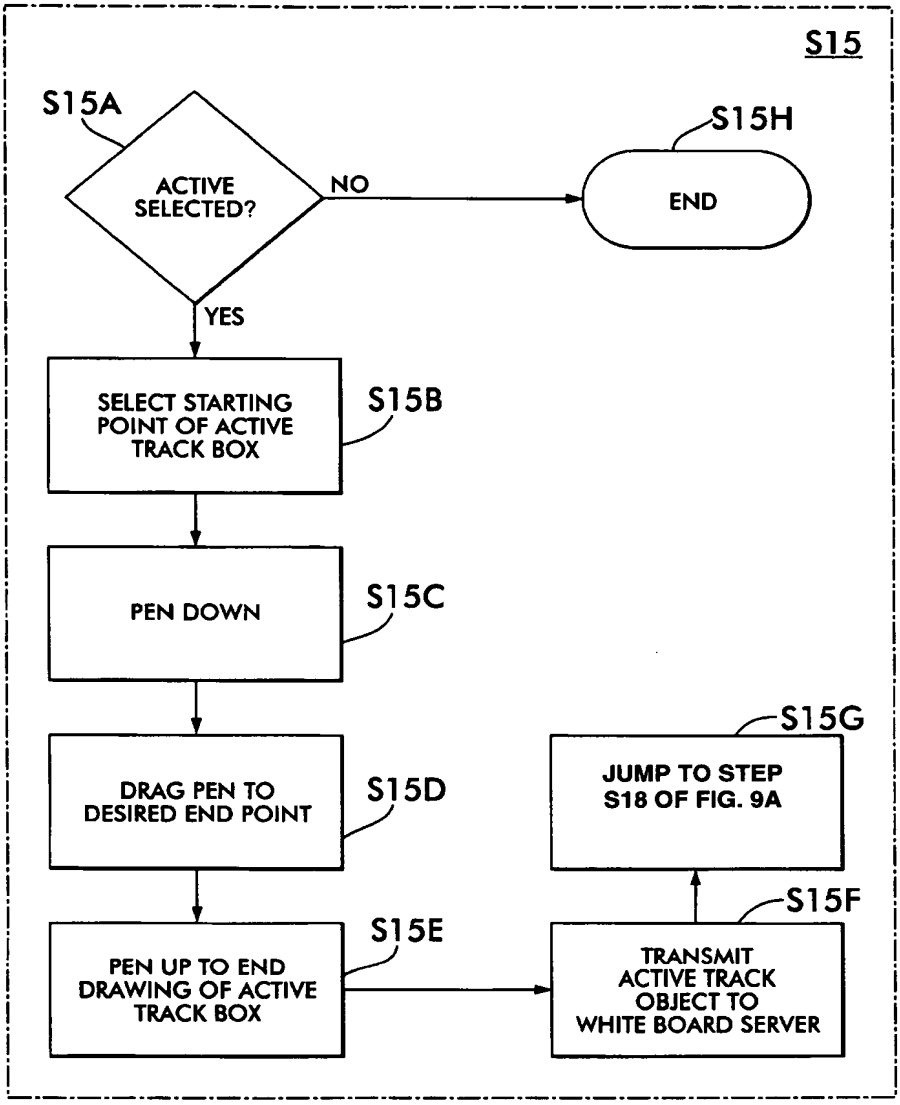
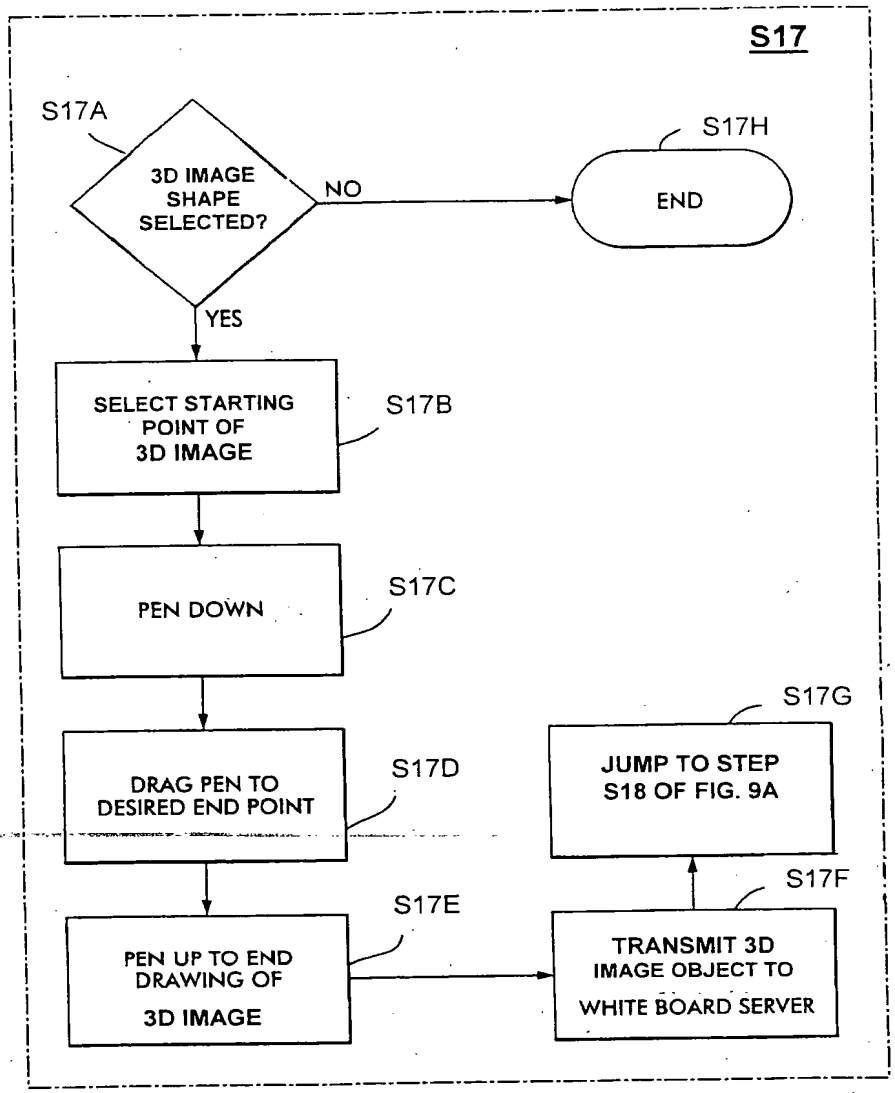

S15
S15A
ACTIVE SELECTED?
NO
S15H
END
YES
SELECT STARTING POINT OF ACTIVE TRACK BOX
S15B
PEN DOWN
S15C
DRAG PEN TO DESIRED END POINT
S15D
S15G
JUMP TO STEP S18 OF FIG. 9A
S15F
PEN UP TO END DRAWING OF ACTIVE TRACK BOX
S15E
TRANSMIT ACTIVE TRACK OBJECT TO WHITE BOARD SERVER

FIG. 10F


S17
S17A
3D IMAGE SHAPE SELECTED?
NO
S17H
END
YES
SELECT STARTING POINT OF 3D IMAGE
S17B
PEN DOWN
S17C
DRAG PEN TO DESIRED END POINT
S17D
S17G
JUMP TO STEP S18 OF FIG. 9A
S17F
S17E
PEN UP TO END DRAWING OF 3D IMAGE
TRANSMIT 3D IMAGE OBJECT TO WHITE BOARD SERVER

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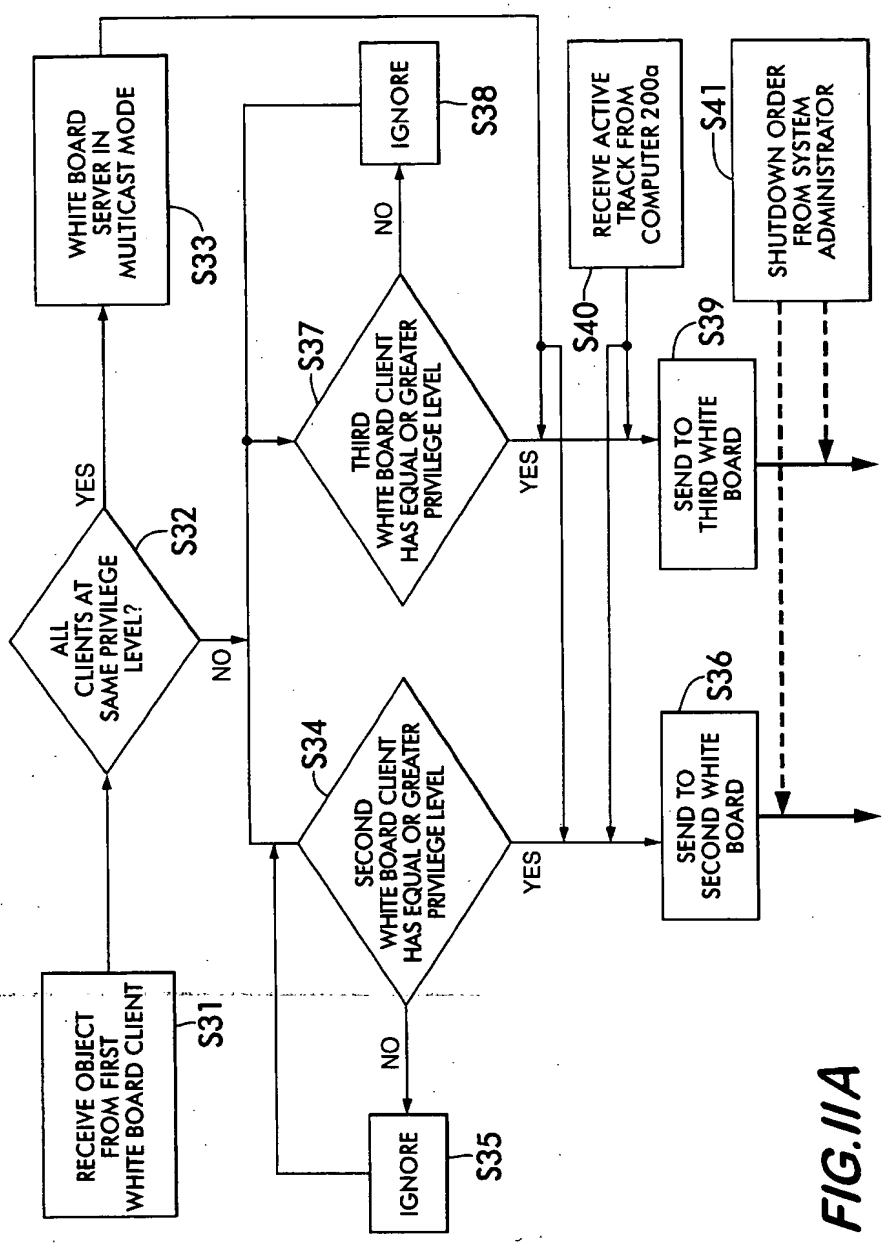


FIG.11A

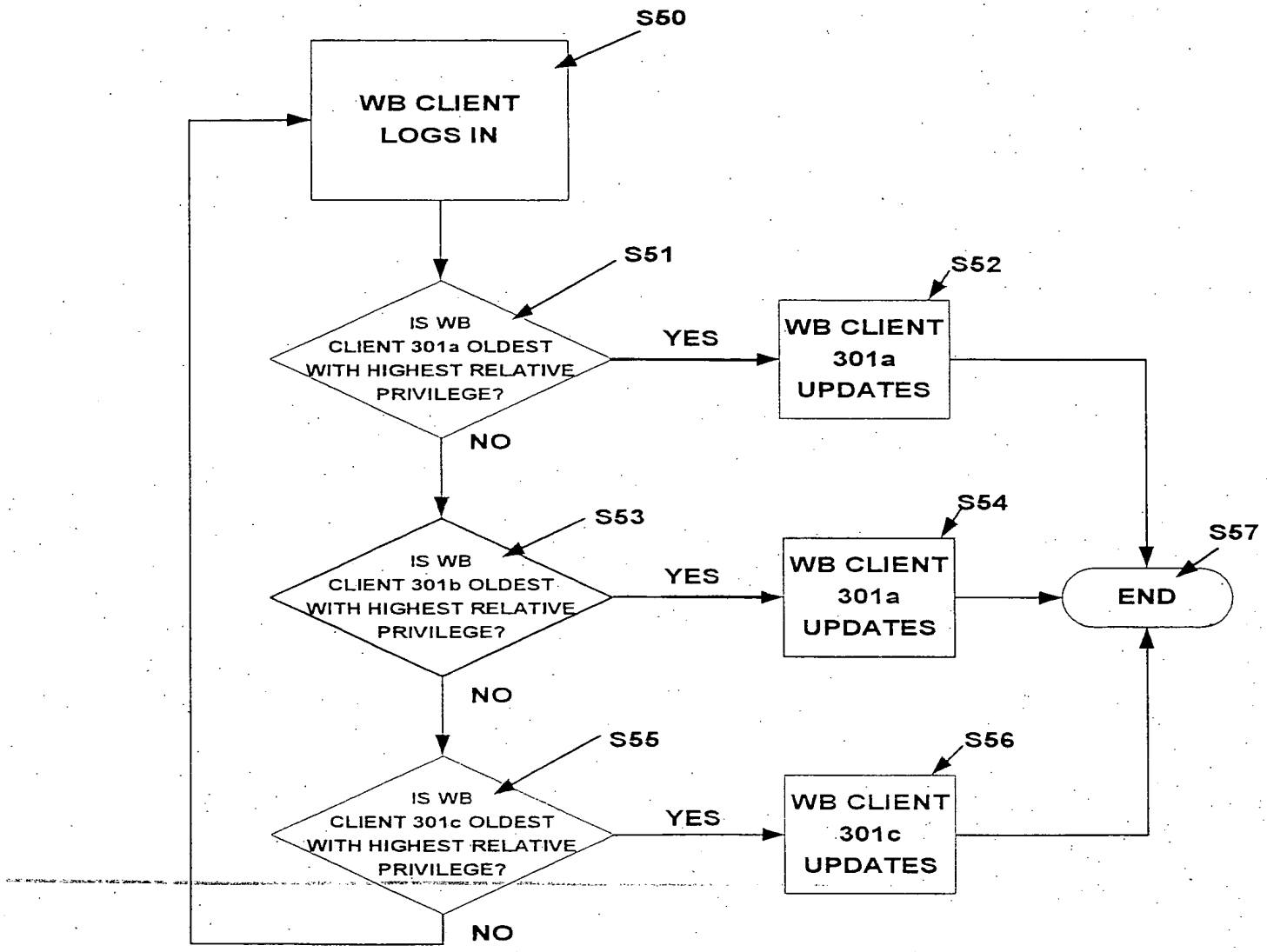

S50
WB CLIENT LOGS IN
S51
IS WB CLIENT 301a OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S52
WB CLIENT 301a UPDATES
NO
S53
IS WB CLIENT 301b OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S54
WB CLIENT 301a UPDATES
S57
END
NO
S55
IS WB CLIENT 301c OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S56
WB CLIENT 301c UPDATES
NO

FIG. 11B

FIG. 12A

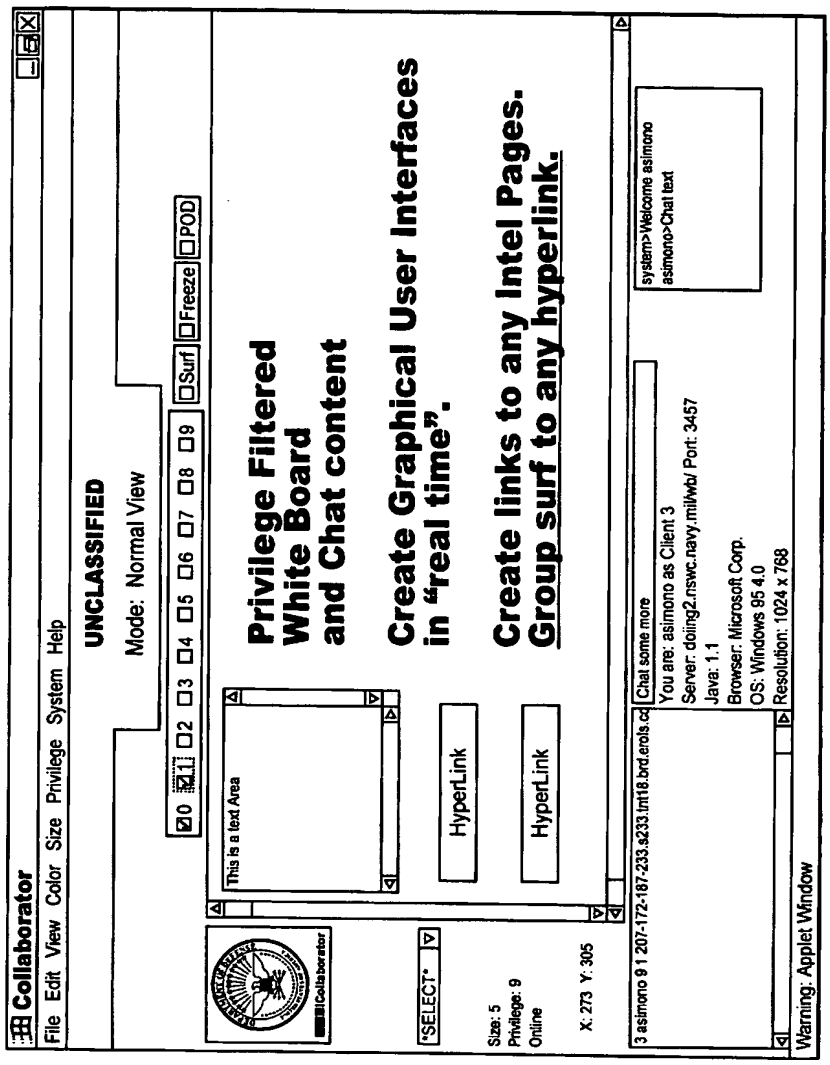

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
0 1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
This is a text Area
Privilege Filtered
White Board
and Chat content
Create Graphical User Interfaces
in "real time".
Create links to any Intel Pages.
Group surf to any hyperlink.
HyperLink
HyperLink
"SELECT"
Size: 5
Privilege: 9
Online
X: 273 Y: 305
3 asimono 9 1 207-172-187-233.s233.int18.brd.erols.cd
Chat some more
You are: asimono as Client 3
Server: doiing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
asimono>Chat text
Warning: Applet Window

FIG. 12B

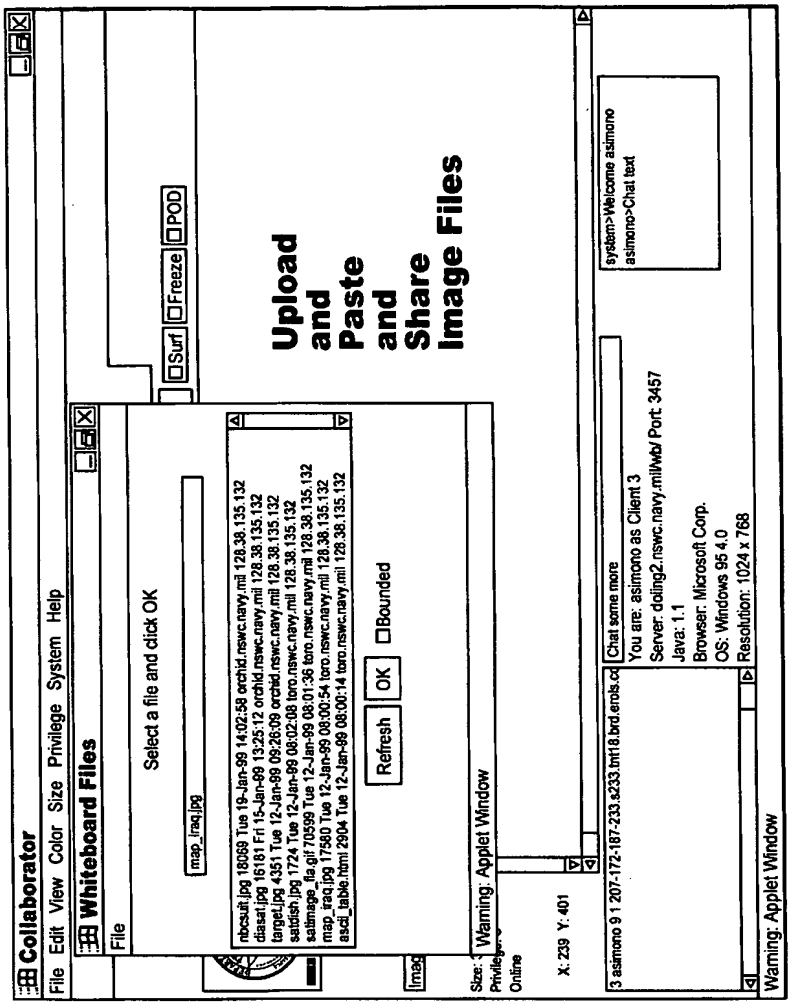

Collaborator
File Edit View Color Size Privilege System Help
Whiteboard Files
File
Select a file and click OK
map_iraq.jpg
nbcsat.jpg 18069 Tue 19-Jan-99 14:02:58 orchid.nswc.navy.mil 128.38.135.132
diasat.jpg 16181 Fri 15-Jan-99 13:25:12 orchid.nswc.navy.mil 128.38.135.132
target.jpg 4351 Tue 12-Jan-99 09:26:09 orchid.nswc.navy.mil 128.38.135.132
satdish.jpg 1724 Tue 12-Jan-99 08:02:08 toro.nswc.navy.mil 128.38.135.132
satimage_fla.gif 70599 Tue 12-Jan-99 08:01:36 toro.nswc.navy.mil 128.38.135.132
map_iraq.jpg 17580 Tue 12-Jan-99 08:00:54 toro.nswc.navy.mil 128.38.135.132
ascii_table.html 2904 Tue 12-Jan-99 08:00:14 toro.nswc.navy.mil 128.38.135.132
Refresh
OK
Bounded
Surf
Freeze
POD
Upload and Paste and Share Image Files
Warning: Applet Window
X: 239 Y: 401
3 asimono 9 1 207-172-187-233.s233.tnt1a.brd.erols.cd
Chat some more
You are: asimono as Client 3
Server: doling2.nswc.navy.mil/Wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
asimono>Chat text
Warning: Applet Window

FIG. 12C

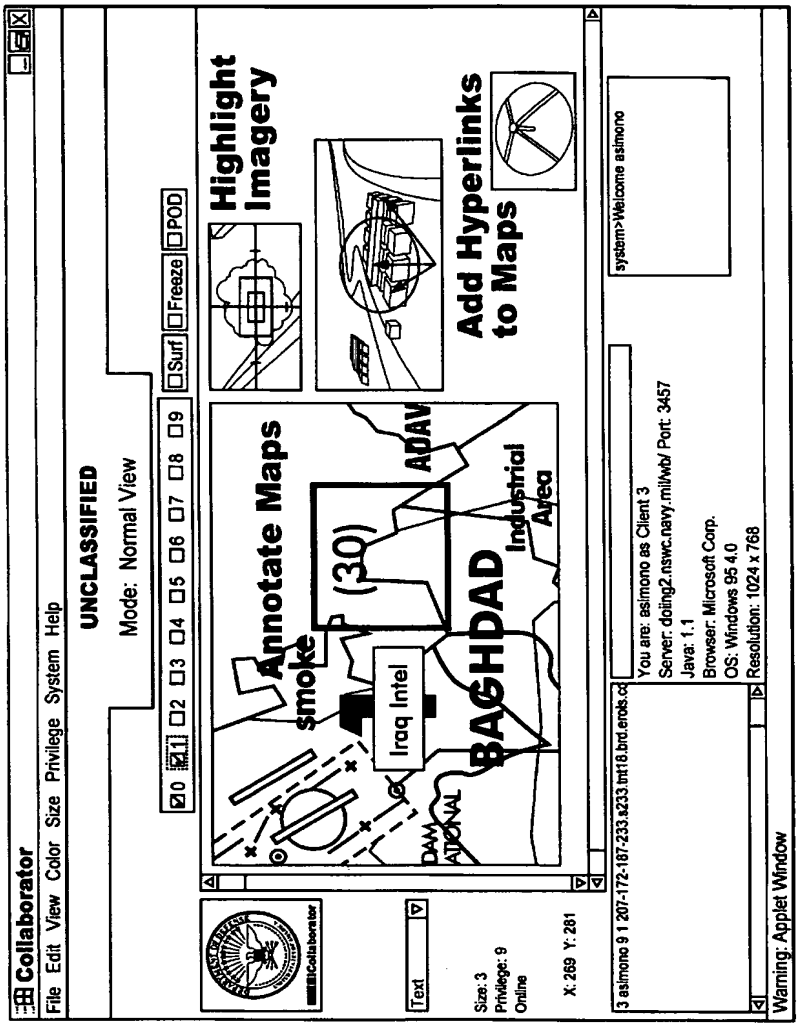

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
Surf
Freeze
POD
Highlight Imagery
Annotate Maps
smoke
Iraq Intel
(30)
BAGHDAD
Industrial Area
Add Hyperlinks to Maps
Text
Size: 3
Privilege: 9
Online
X: 269 Y: 281
3 asimono 9 1 207-172-187-233.s233.tnt18.brd.erols.cc
You are: asimono as Client 3
Server: doiing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window

FIG. 12D

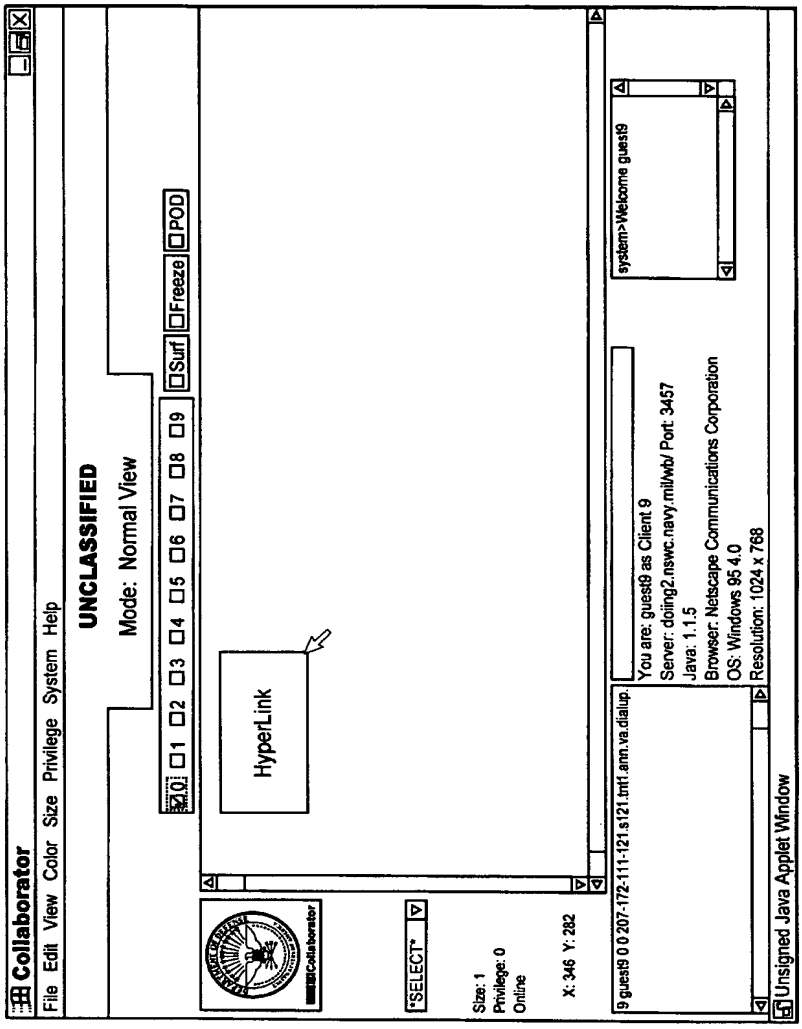

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
HyperLink
SELECT
Size: 1
Privilege: 0
Online
X: 346 Y: 282
9:guest9 0 0 207-172-111-121.s121.tnt1.ann.va.dialup.
You are: guest9 as Client 9
Server: doiing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome guest9
Unsigned Java Applet Window

FIG. 12E

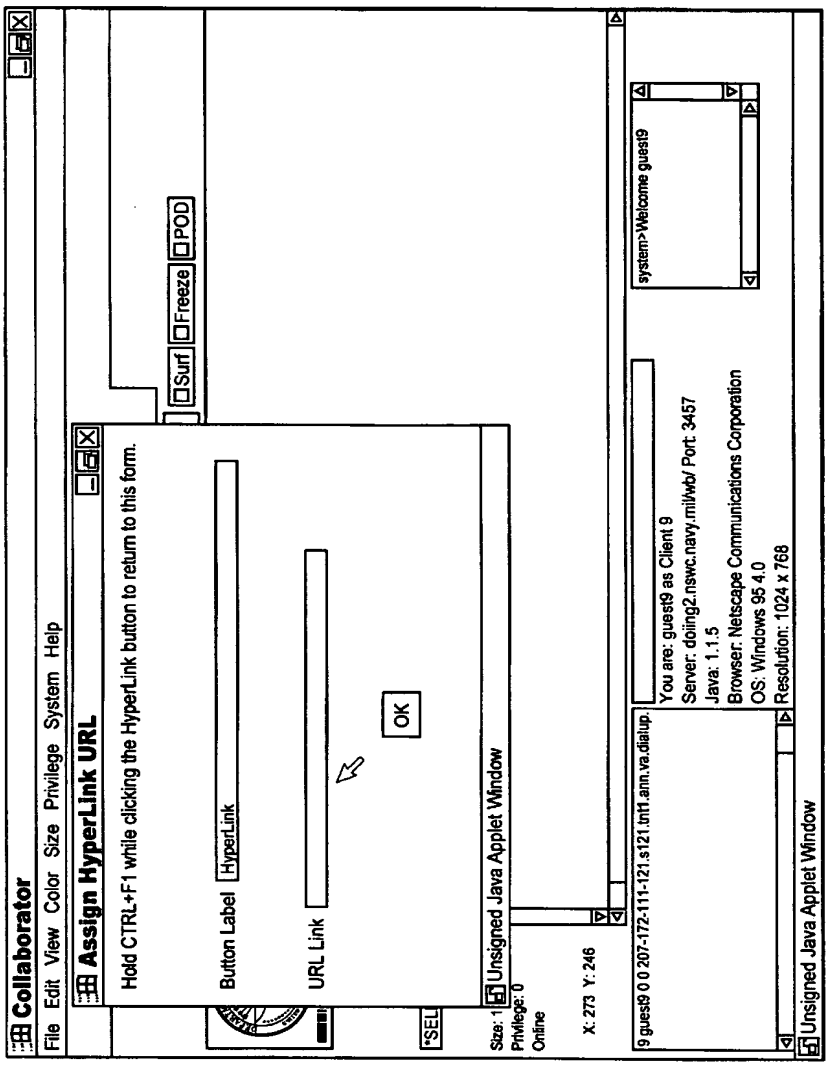

Collaborator
File Edit View Color Size Privilege System Help
Assign HyperLink URL
Hold CTRL+F1 while clicking the HyperLink button to return to this form.
Button Label
HyperLink
URL Link
OK
Surf
Freeze
POD
SEL
Unsigned Java Applet Window
Size: 1
Privilege: 0
Online
X: 273 Y: 246
9 guest9 0 0 207-172-111-121.s121.tnt1.ann.va.dialup.
You are: guest9 as Client 9
Server: doiing2.nswc.navy.mil/wbl/ Port: 3457
Java: 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome guest9
Unsigned Java Applet Window

FIG. 12F

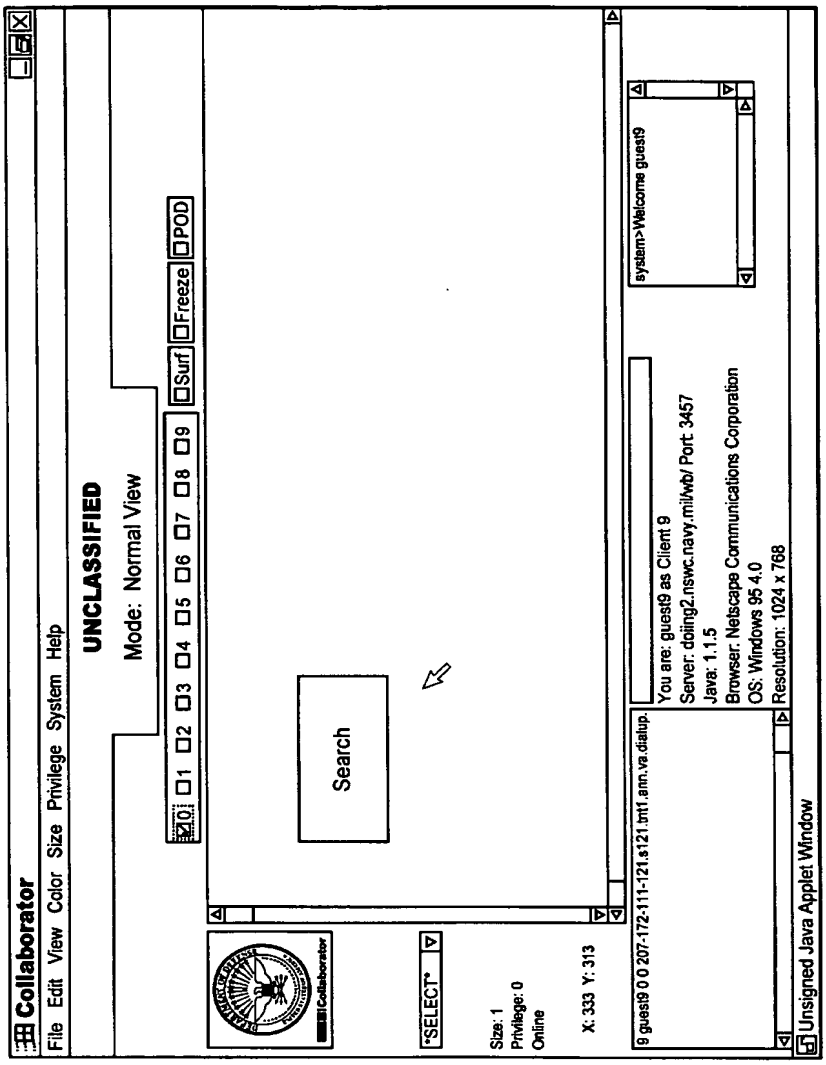

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
Search
SELECT
Size: 1
Privilege: 0
Online
X: 333 Y: 313
9 guest9 0 0 207-172-111-121.s121.tnt1.ann.va.dialup.
You are: guest9 as Client 9
Server: doiing2.nswc.navy.mil/wb/ Port 3457
Java: 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome guest9
Unsigned Java Applet Window

FIG. 12G

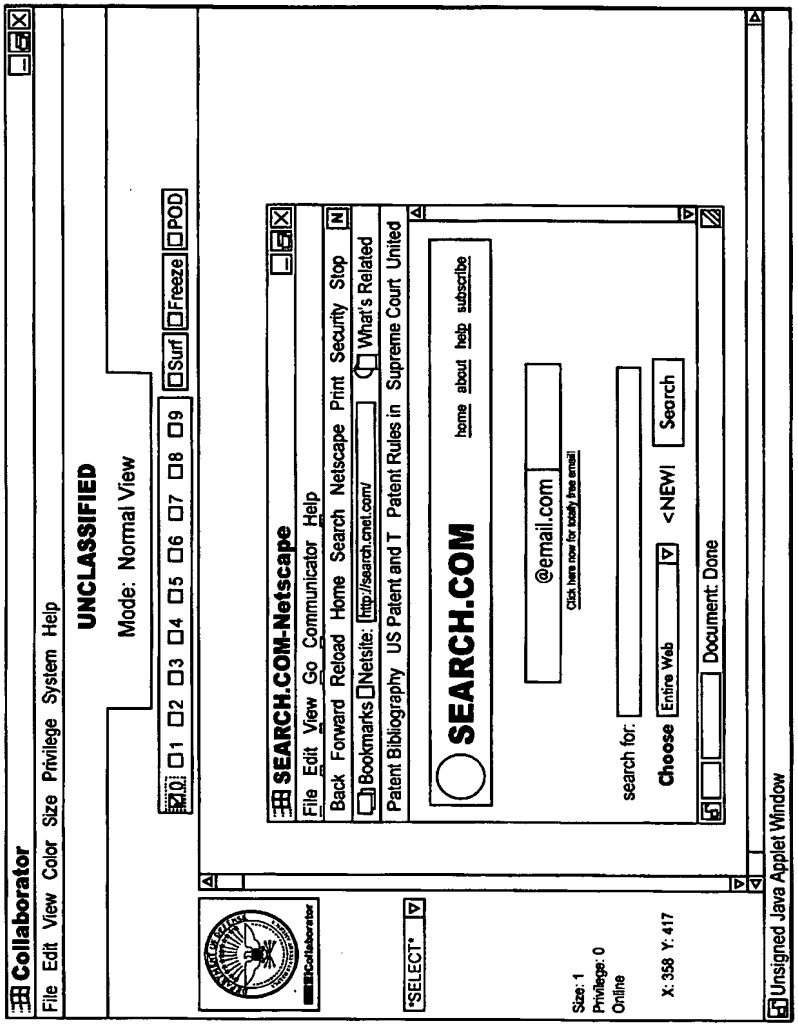
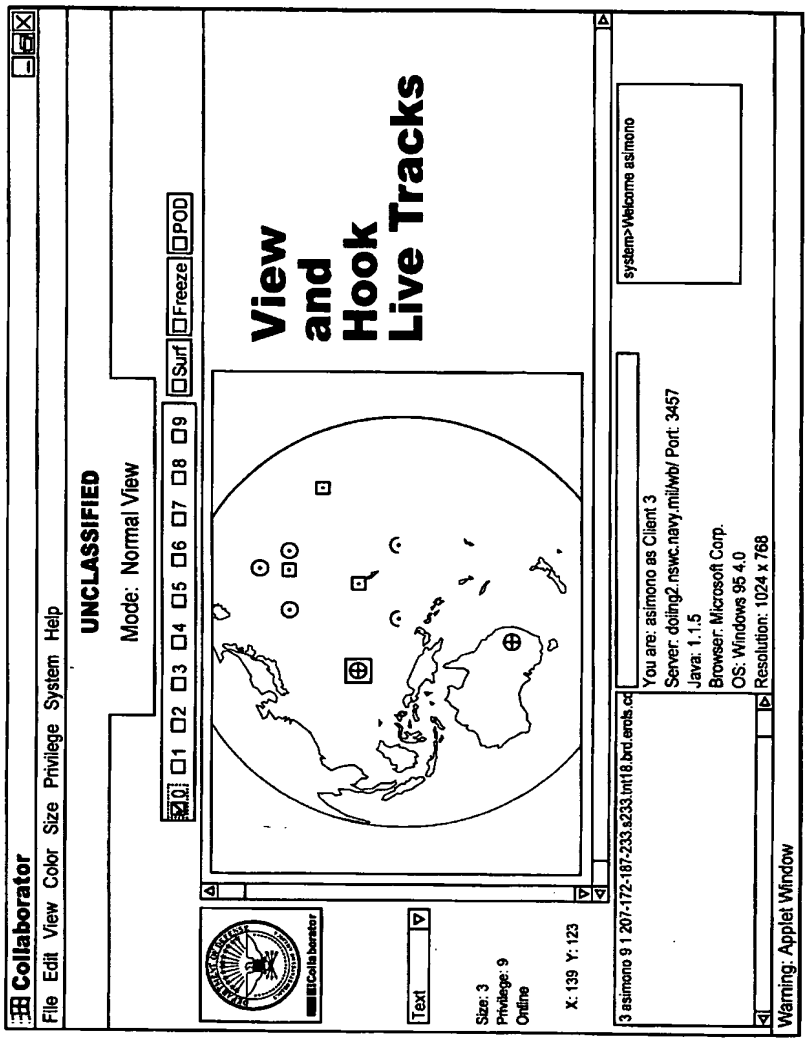

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
0 1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
SEARCH.COM-Netscape
File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Netsite: http://search.cnet.com/
What's Related
Patent Bibliography US Patent and T Patent Rules in Supreme Court United
SEARCH.COM
home about help subscribe
@email.com
Click here now for totally free email!
search for:
Choose
Entire Web
<NEW!
Search
Document: Done
SELECT
Size: 1
Privilege: 0
Online
X: 358 Y: 417
Unsigned Java Applet Window

FIG. 12H


Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
0 1 2 3 4 5 6 7 8 9
Surf
Freeze
POD
View and Hook Live Tracks
Text
Size: 3
Privilege: 9
Online
X: 139 Y: 123
3 asimono 9 1 207-172-187-233.s233.tnt18.brd.ents.cd
You are: asimono as Client 3
Server: doing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1.5
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window